

NEW COMBINATIONS AND NEW TAXA IN THE BROMELIACEAE

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ABSTRACT

New combinations are proposed in the genera *Werauhia* J.R. Grant and *Tillandsia* Linnaeus as follows, *Werauhia broadwayi* (L.B. Smith) J.R. Grant, *W. dodsonii* (L.B. Smith) J.R. Grant, *W. gibba* (L.B. Smith) J.R. Grant, *W. guadelupensis* (Baker) J.R. Grant, *W. haplostachya* (Sauvalle) J.R. Grant, *W. nutans* (L.B. Smith) J.R. Grant, *W. rugosa* (Mez & Wercklé) J.R. Grant, *W. urbaniana* (Mez) J.R. Grant, and *Tillandsia cathcartii* (Luther) J.R. Grant. The name \times *Vriecantarea* J.R. Grant is proposed to account for hybrids between the genera *Vriesea* Lindley and *Alcantarea* (E. Morren *ex* Mez) Harms.

KEY WORDS: Bromeliaceae, *Werauhia*, *Tillandsia*, \times *Vriecantarea*, *Vriesea*, *Alcantarea*, nomenclature

Continuing an effort to organize species of the bromeliad subfamily Tillandsioideae into natural genera, a number of new combinations are proposed. Examination of newly collected material at InBIO (Instituto Nacional de Biodiversidad [INB], Costa Rica) has provided a convincing argument for the integrity of several species I had previously placed in synonymy (*Vriesea dodsonii* L.B. Smith, *V. nutans* L.B. Smith, and *V. rugosa* Mez & Wercklé). Also, the previously hypothesized generic position of several species in *Werauhia* listed as "doubtful species" in Grant (1995) was verified by the examination of additional specimens. These taxa include *Vriesea antillana* L.B. Smith & Pittendrigh [*Guzmania urbaniana* Mez], *V. broadwayi* L.B. Smith, *V. gibba* L.B. Smith, *V. guadelupensis* (Baker) Mez, and *V. haplostachya* (Sauvalle) L.B. Smith. Of the other dubious taxa listed, *Tillandsia alta* Baker was based on an illustration that appears to be an *Alcantarea* species, *Tillandsia dissitiflora* Sauvalle is recognized as *Vriesea dissitiflora* (Sauvalle) Mez, and the true identity of *Tillandsia camptoclada* Mez & Wercklé is still to be definitively determined.

- Werauhia broadwayi* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea broadwayi* L.B. Smith, Proc. Amer. Acad. Arts 68:149. 1933. TYPE: TRINIDAD. Heights of Aripo, *Broadway 9916* (HOLOTYPE: TRIN [photo US]; Isotypes: K, NY).
- Werauhia dodsonii* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea dodsonii* L.B. Smith, Phytologia 8(5):221. 1962. TYPE: COSTA RICA. Without locality, *Wilson & Wilson 31* (HOLOTYPE: US).
- Werauhia gibba* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea gibba* L.B. Smith, Contr. U.S. Natl. Herb. 29:524. 1954. TYPE: JAMAICA. Knox College, Spaldings, *Dignum 2785* (HOLOTYPE: IJ).
- Werauhia guadelupensis* (Baker) J.R. Grant, *comb. nov.* BASIONYM: *Tillandsia guadelupensis* Baker, *Handb. Bromel.* 213. 1889. *Vriesea guadelupensis* (Baker) Mez in C.DC., *Monogr. Phan.* 9:596. 1896. *Neovriesea guadelupensis* (Baker) Stehlé, Fl. Guad. 1:212. 1936. TYPE: GUADELOUPE. Without locality, *Duchassaing s.n.* (HOLOTYPE: B).
- Werauhia haplostachya* (Sauvalle) J.R. Grant, *comb. nov.* BASIONYM: *Tillandsia haplostachya* Sauvalle, *Anales Acad. Ci. Méd. Habana* 8:73. 1871. *Vriesea haplostachya* (Sauvalle) L.B. Smith, Contr. Gray Herb. 114. 1936. TYPE: CUBA. Monte Verde, Oriente, *Wright s.n.* (locality of holotype unknown; Isotype: GH).
- Werauhia nutans* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea nutans* L.B. Smith, Phytologia 7(4):175. 1960. TYPE: COSTA RICA. San José: Road from Turrialba to Moravia, *Foster 2727* (HOLOTYPE: US).
- Werauhia rugosa* (Mez & Wercklé) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea rugosa* Mez & Wercklé in Mez, Bull. Herb. Boissier ser. 2, 4(9):866. 1904. TYPE: COSTA RICA. Without locality, *Wercklé 115* (HOLOTYPE: B; photo US).
- Werauhia urbaniana* (Mez) J.R. Grant, *comb. nov.* BASIONYM: *Guzmania urbaniana* Mez in C.DC., *Monogr. Phan.* 9:920. 1896. *Thecophyllum urbanianum* (Mez) Mez, Bull. Herb. Boissier ser. 2, 3:131. 1903. TYPE: MARTINIQUE. Without locality, *Duss 296* (HOLOTYPE: B). ≡ *Vriesea antillana* L.B. Smith & Pittendrigh, J. Wash. Acad. Sci. 43:403. 1953., *nom. nov.* for *Guzmania urbaniana* Mez, not *Vriesea urbaniana* Harms (1935).

As noted by Luther (1995), *Vriesea cathcartii* lies within the "large-flowered-grey-vriesea complex" that I regard as belonging to *Tillandsia sensu strictu*.

Tillandsia cathcartii (Luther) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea cathcartii* Luther, J. Brom. Soc. 45(2):52. 1995. TYPE: ECUADOR. Zamora-Chinchi: 1.6 km east of Zumbi on Zumbi-Paquisha road, ca. 850 m, August 1994, D. Cathcart 81794-1 (HOLOTYPE: SEL; Isotype: QCNE).

When the cultivar *Vriesea* 'inferno' [*Vriesea ensiformis* (Vellozo) Beer \times *Vriesea regina* (Vellozo) Beer] was proposed (Baskerville 1994), both parent species were referred to the genus *Vriesea* Lindley. Since then, the genus *Alcantarea* (E. Morren ex Mez) Harms has been resurrected and includes *Vriesea regina* Vellozo [*Alcantarea regina* (Vellozo) Harms] (Grant 1995). Therefore, in order to account for hybrids between *Vriesea* and *Alcantarea*, a new hybrid generic name is proposed.

\times *Vriecantarea* J.R. Grant, *nothogen. nov.* Based on *Vriesea* Lindley, Bot. Reg. 19: pl. 10. 1843. and *Alcantarea* (Morren ex Mez) Harms, Notizbl. Bot. Gard. Berlin 10:802. 1929.

ACKNOWLEDGMENTS

I thank J. Francisco Morales, Instituto Nacional de Biodiversidad, for assistance while visiting INB, and James L. Reveal and James R. Rundell for review of the manuscript.

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